

APPENDIX A

SIMULATED CITATIONS ISSUED DURING THE OSHA/DOE/OAK RIDGE PILOT PROJECT

See footnote at end of table for interpretation of notations.

EMPLOYER NAME & LOCATION	ALLEGED VIOLATION CITED	T Y P E	DESCRIPTION	Penalty	CITE DOE?
ETTP-Bechtel-Jacobs K25 Vaults	5(a)(1)	S	Large chunks of stucco material were peeling off the building and could strike employees.	\$600.00	Y
ETTP-Bechtel-Jacobs K25 Vaults	1910.1096(e)(2)	S	radiation warnings were not conspicuously posted in an area where technicians were taking samples.	\$800.00	N
ETTP-Bechtel-Jacobs K25 Vaults	1910.134(c)(1)(iv)(5)	S	Improper placement of air supply lines for breathing air.	\$800.00	N
ETTP-Bechtel-Jacobs K25 Vaults	1910.120(p)(7)(ii)	S/ D	No 8 hour annual refresher training for employees working with hazardous waste in vault 306-4	\$800.00/ \$0.00	N
ETTP-Bechtel-Jacobs K25 Vaults	1910.120 (j)(1)(vi)	S	Employees in vault 306-4 were not warned of the potential hazards associated with the waste in drums.	\$800.00	N
ETTP-Bechtel-Jacobs K25 Vaults	1910.120(j)(8)(iv)	S/ O	Hazardous waste was not characterized before repackaging.	\$800.00/ \$0.00	N

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ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	5(a)(1)	S	Employees at the incinerator were potentially exposed to hot surfaces of approximately 500 degrees F of the rotary kiln while lubricating the kiln bearings. Employees are required to lubricate the roller bearings every Thursday using a grease gun, and to do so, must get in close proximity (potentially six inches or less) to the surface of the rotating kiln, which can be approximately 500 degrees F.	\$1,500.00	Y
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ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	5(a)(1)	S	<p>(A) At the TSCA incinerator, the mechanical integrity program did not include written procedures for the inspection and testing of vessels that followed good engineering practice. Good engineering practices for the inspection and testing of vessels should include an internal inspection of the vessel at intervals not exceeding one-half the estimated remaining corrosion-rate life of the vessel or ten years, whichever is less. Vessels with linings should be inspected for breaks or leaks in the linings.</p> <p>(B) At the TSCA incinerator, the mechanical integrity program did not include written procedures for the inspection and testing of piping that followed good engineering practice. Good engineering practices for the inspection and testing of piping should include the use of internal visual inspection of large diameter piping, thickness measurements inspection, external visual inspection, and vibrating piping inspection to prevent a breakdown maintenance program that replaces corroded piping that is leaking.</p>	\$1125,00	
ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	1910.119(c)(1) Cited as a planning tool only. Section 119 does not currently apply to the incinerator	S/ D	The employer did not develop a written plan of action which explained how employees and their representatives would be consulted with in developing and implementing all of the elements of process safety management and determining if improvements or changes are necessary.	\$1125.00/ \$0.00	Y

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ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	1910.119(e)(3)(iv) Cited as a planning tool only. Section 119 does not currently apply to the incinerator	S/ D	The process hazard analysis for the incinerator did not address facility siting issues such as, but not limited to, location and construction of control rooms, fresh air intakes, sufficiency of access or egress for maintenance or emergencies, routing of utilities, back-up power or other critical utilities, routing of critical controls and process cable trays.	\$1125.00/ \$0.00	Y
ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	1910.119(e)(3)(6) Cited as a planning tool only. Section 119 does not currently apply to the incinerator	S/ D	The process hazard analysis for the incinerator did not address human factors issues including but not limited to operator/process interface, workplace/working environment, organization/policies, task design/job organization, training/education, unusual work schedules, location of isolation valves, communications, environmental factors, clarity and simplicity of displays, clarity of signs and labels, and written procedures.	\$1125.00/ \$0.00	Y
ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	1910.119(o)(1) Cited as a planning tool only. Section 119 does not currently apply to the incinerator	S/ D	The employer did not perform a compliance audit at least every three years at the incinerator, with at least one person with appropriate knowledge, experience, or training to perform a Process Safety Management program evaluation including evaluating program requirements and documentation, performing employee interviews, and evaluating on-site conditions.	\$1125.00/ \$0.00	Y

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ETTP -TSCA INCINERATOR #17455882 Bechtel-Jacobs	1910.1096(e)(6)(iv)	S	The employer did not label incinerator-ready containers (also known as “hat boxes”) received from the Building 306-4 vault area with information regarding the quantities and kinds of radioactive materials in the containers and the date of measurement of the quantities. These containers were stored prior to incineration adjacent to the filter press area.	\$1500.00	Y
ETTP-TSCA INCINERATOR #17457094 Bechtel-Jacobs	1910.22(a)(1)	S	Hoses were stored in the aisle ways of Area B exposing employees to tripping hazards	\$1875.00	N
ETTP-TSCA INCINERATOR #17457094 Bechtel-Jacobs	1910.37(j)	S/ D	Means of egress were not substantially level and the difference in elevation was not negotiated by stairs or ramps. The exit aisle way located at column E@ and tank T306A had a barrier dike extending 18" high and 16" wide creating a tripping hazard for employees using the exit.	\$1500.00/ \$0.00	Y
ETTP-TSCA INCINERATOR #17457094 Bechtel-Jacobs	1910.303(b)(2)	S	Class 1 Division II electrical panels did not meet the UL approval because many of the box latches were either missing or were not connected, allowing unqualified employees access to the boxes or allowing the environmental conditions to damage the interior of the boxes and exposing employees using electrical equipment energized by these panels to injury.	\$2625.00	Y
ETTP-TSCA INCINERATOR #17457094 Bechtel-Jacobs	1910.1200(f)(5)(ii)	S/ O	Improper labeling: Pint size manual spray bottles labeled WD40 contained another substance(KROL OIL).	\$2625.00/ \$0.00	N

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ETTP-TSCA INCINERATOR #17457094 Bechtel-Jacobs	1910.303(b)(2)	O	Improper use or installation of electrical equipment (a) The duplex receptacle located at the tanker off-loading dock control panel and used to energize a tritium air sampler was mounted in a box designed to be mounted and not approved by a listing agency to be used as an extension cord. (b) The duplex receptacle located at the tanker off-loading dock control panel and used to energize a tritium air sampler was secured to a pole with nylon ties used in place of fixed wiring and not approved by a listing agency to be used in this way.	\$0.00	Y
ETTP- Paint Shops BLDG K1095 (Bechtel-Jacobs)	1910.106(d)(4)(iv)	S	The make-up air vents for the mechanical ventilation in the paint/solvent storage/dispensing room had been covered.	\$1875.00	N
ETTP-Bridge 1254 Construction Bechtel-Jacobs	1926.100(a)	S/ O	Employee of a subcontractor was wearing a “bump cap”	\$1300.00/ \$0.00 knowledge	N
ETTP-Bridge 1254 Construction Bechtel-Jacobs	1926.50(g)	O	The portable eye wash station was not full.	\$0.00	N
ETTP-Bridge 1254 Construction Bechtel-Jacobs	1926.106(c)	O	90 feet of line was not attached to the life rings at the project.	\$0.00	Y

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ETTP-Bridge 1254 Construction MK-Ferguson	1926.1926.100(a)	S/	Employee of a subcontractor was wearing a bump cap.	\$1500.00	N
ETTP-Bridge 1254 Construction MK-Ferguson	1926.50(g)	O	The portable eye was station was not full.	\$0.00	N
ETTP-Bridge 1254 Construction MK-Ferguson	1926.106(c)	O	90 feet of line was not attached to the life rings at the project.	\$0.00	N
ETTP-Bridge 1254 Construction Lakeway Concrete	1926.100(a)	S	An employee was wearing a “bump cap” instead on an approved hard hat.	\$300.00	N
ETTP-Bridge 1254 Construction Jamerson Construction	1926.100(a)	S	An employee of a subcontractor was wearing a “bump cap” instead of a hard hat.	\$100.00	N
ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.159(c)(2)	S	Fire sprinkler systems were not inspected and tested. The sprinkler heads were corroded and visual inspection indicates they may not perform as intended.	\$525.00	Y

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ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.305.(b)(1)	S	Unused openings of wall-mounted receptacle raceways did not have all unused openings effectively closed. In building K1004A, room 1, the receptacle raceway was located on the south wall approximately five feet above floor level. There were two knockouts missing from the underside of the raceway. The raceway is located on the wall above the lab counter top and employees perform various analytical duties in this area.	\$525.00	Y
ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.303(b)(2)	S	A metal receptacle was not used in accordance with its listing or labeling. In building K1004, Room 172, a metal receptacle outlet sitting on a counter top was attached to a flexible cord and plugged into 120 volts ac. The outlet box was designed to be mounted in a fixed location. The outlet box could fall off the counter and sustain damage, which could cause the metal box to become energized.	\$525.00	N
ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.26(c)(2)(iv)	S	A rolling ladder (three foot step ladder) was missing its rubber feet. The floor in the lab is a tile-type floor and without the rubber feet in place the ladder could slide while a worker was standing on it, causing the worker to fall off.	\$525.00	N

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ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.3059(a)(2)(iii)(f)	S	The 25 watt light bulb in building K1004, near Room B107 was not provided a bulb guard. The bulb protruded from a wall at approximately 6 feet 8 inches from the floor. The company is in the process of moving equipment out of the building and the bulb could be struck causing an electrical shock hazard and lacerations from broken glass.	\$525.00	Y
ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.151(c)	S	In building K1004, Room 22, a chemical laboratory where urine and other samples are received or stored, an emergency eyewash station was not available for immediate use. Although an eyewash/drenching hose station was present adjacent to an exhaust hood, the location made immediate access extremely difficult. The eyewash station was approximately five feet in elevation and was extremely inconvenient to use for individuals less than seven feet tall. Prior knowledge of the need to relocate the eyewash was evident by a tag attached to the eyewash that stated "Eyewash needs to be lowered" and was dated August 18, 1993.	\$700.00	Y
ETTP-Analytical Services Organization Inorganic Labs Building K1004 A, B, and C	1910.1450(e)(3)(vii)	O	The ASO chemical hygiene plan did not identify who the chemical hygiene officer is and any point of contact.	0	N
ETTP-Central Neutralization Facility	1910.242(b)	S	Compressed air used for cleaning purposes was not reduced to less than 30 p.s.i. The air outlet in K-1419 did not have a pressure gauge.	\$2275.00	Y

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ETTP-Central Neutralization Facility	1910.303(b)(2)	S	The duplex receptacle located in building K-1419 was not approved for use on a flexible cable.	\$2275.00	Y
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.251(a)(6)	S	A wire rope sling being used to move a transformer with a fork lift had not been inspected to certify that it was of adequate size and grade, its rated capacity and that it was in operable condition ato perform the task.	\$1600.00	N
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1926.350(a)(12)	S	Compressed gas cylinders were not properly supported to prevent them from being knocked over: a: First floor MC24: Two P-10 2000 PSI compressed gas cylinders which were in use with regulators open were chained together and could be knocked over. b: MC-24: Two P-10 cylinders manifolded in operation were located on movable wheeled handcars. They were not properly secured to prevent damage to the manifold/regulatory delivery system.	\$1200.00	Y
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1926.28(a)	S	Employees measuring PCB contaminated oil contained in transformers were either wearing leather gloves or no gloves. Neither choice protected against skin contamination and absorption of the PCB containing oils during measuring rod use.	\$1600.00	Y

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ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.134(b)(8)	S	<p>Appropriate surveillance of work area conditions and degree of employee exposure or stress was not maintained.</p> <p>a: Employees dismantling UF6 systems were wearing full face mechanical filter respirators for protection against radiological, metal fume, and hydrofluoric acid hazards. However, air samples taken to determine respirators were taken at waist level and not in the breathing zone.</p> <p>b: Direct-reading instrument (detector tubes) samples taken for HF combined a sample tube and a pump made by two different manufacturers. The accuracy of this combination could not be demonstrated or encouraged by one of the manufacturers.</p> <p>c: Employees were using dual cartridge respirators approved for low level exposure to acid gases, including HF, chlorine, radionuclides and particulate; however, only detector tube and other direct-reading instruments capable of measuring up to a maximum of 15 ppm hydrofluoric acid were used to characterize the workplace exposure. No monitoring evidence was presented to indicate exposures could not exceed 15 ppm or the respirator cartridge filtering capacity.</p>	\$2800.00	Y
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ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.178(l)	S	Operators were not trained in the safe operation of Powered industrial trucks. a: While moving a transformer with the forks and a wire rope sling, a rigger was allowed to get between the fork truck and the transformer while the operator had the engine running. b: While utilizing a powered industrial truck to move a transformer, the truck operator was observed not using the seat belt provided.	\$1200.00	Y
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.405(g)(1)(i)	S	Flexible cords and cables were not approved and suitable for conditions of use and location. a: At the Second floor, W-8, an in-house manufactured extension cord not connected to a GFCI was utilized for welding and cutting. Components used in the cord were for wall mounting and showed no approval for use as an extension cord. b: At 902-8, Cell 10, an extension cord was improperly spliced and the box used was for wall mounting and did not show an approval for use as an extension cord or components.	\$1600.00	Y
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.405(g)(1)(iii)(A)	S	Flexible cords and cables were used as a substitute for fixed wiring of a structure. a: First floor, MC24; an extension cord was utilized for the employees time clock. b: MC24; an extension cord was utilized for two radiation meters and the associated radiation booths.	\$1200.00	Y

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ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.405(g)(1)(iii)(C)	S	Flexible cords and cables were run through doorways, windows or similar openings. a: First floor, MC24; An extension cord utilized for the time clock was taped to the floor with duct tape in an employee walkway. b: MC24; An extension cord utilized for the radiation meters and booths was taped to the floor in an employee walkway.	\$1200.00	Y
ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.1096(d)(1)	S	The employer did not make effective surveys as may be necessary to comply with the provisions of 1910.1096. Survey means an evaluation of the radiation hazards incident to the production, use, release, disposal, or presence of radioactive material or other sources of radiation under a specific set of conditions. a: Radiation monitoring for radiation hazards was conducted by placing TLD monitors underneath coveralls and other protective clothing, which could interfere with accurate measurement of exposure to alpha and low energy beta radiation. Employees are involved in the demolition and deconstruction of material used for refining which is contaminated by uranium and other radioactive substances.	\$1600.00	Y

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ETTP-British Nuclear Fuels, LTD. K-33 D&D Project	1910.1020(g)(1)(iii)	S	Welders working on the first floor were not informed of the exposure monitoring results conducted by the employer for exposure to metals during welding and cutting operations. This exposure could potentially include lead and cadmium.	\$1200.00	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.62(d)(2)(iv)	S	No initial employee lead exposure assessments were done for employees performing welding, cutting and torch burning operations.	\$1375	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.62(d)(2)(v)(A)	S	Respirators for protection against lead were not provided to employees performing welding, cutting and torch burning operations on lead containing paint near the economizers.	Grouped	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.100(a)	S	An employee working on the third floor, #2 economizer was not wearing a protective helmet where there was a possibility of overhead injury.	\$1100.00	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.501(b)(1)	S	Fall protection was not provided for employees exposed to falls of greater than six feet while working on an open sided platform on the third floor of the steam plant.	\$1375.00	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.169(a)(2)(ii)	O	The pressure manifold used to supply air for tools on the third floor of the steam plant did not have a rated capacity.	0	Y

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ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1926.352(e)	O	An employee performing duties as a fire watcher on the second floor of the steam plant was not trained on the use of portable fire extinguishers.	0	Y
ORNL-TEI Construction Services, Inc. (At the Steam Plant)	1910.1200(e)(1)(i)	O	Employees were working with oxygen, acetylene and other chemicals on the second floor of the steam plant and no list of chemicals was available.	0	Y
ORNL-LMES Steam Plant, BLDG 2519	1910.37(a)	S	A roll up door was labeled as an exit on the first floor.	\$1875.00/ \$1000.00	Y
ORNL-LMES Steam Plant, BLDG 2519	1910.307(b)	S	On the tripper floor, south was, the cover for a tilt switch control approved for Class II Division 1 and 2 locations was not fully secured in place.	\$1875.00/ \$1000.00	Y
ORNL-LMES Steam Plant, BLDG 2519	1910.27(b)(1)(iii)	O	The clear length of rungs or cleats on the fixed ladder near boiler #5 was less than 16 inches. (12 “ measured length).	0	Y
ORNL-LMES Steam Plant, BLDG 2519	1910.27(c)(4)	O	A portion of the top rail of the guardrail system which runs behind the fixed ladder near the steam drum on the third floor was within 4.5 inches of a rung. A minimum clearance of 7 inches is required.	0	Y
ORNL-LMES NRWTP (Bldg 3608)	1910.303(g)(2)(i)	S	Employees who open cabinets with exposed live electrical parts to reset sludge pumps were exposed to electrical shock.	\$6300.00/ \$4000.00	Y

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ORNL-LMES NRWTP (Bldg 3608)	1910.303(b)(2)	O	Connectors in electrical control panels were not properly fastened.	0	Y
ORNL-LMES LEAD SHOP	1910.22(b)(1)	S	An old trolley track created a tripping hazard for employees working on an elevated platform.	\$975.00	Y
ORNL-LMES LEAD SHOP	1910.1025(h)(1)	S	Areas of the employee changing and break areas were contaminated with lead.	\$1300.00	Y
ORNL-LMES Robotics (Building 7603)	1910.37(j)	S/ O	A 10.5 inch step-down (change in level) at the Lab 8 exit door created a tripping hazard to employees.	\$2275.00/ \$1200.00	Y
ORNL-LMES Robotics (Building 7603)	1910.253(b)(4)(i)	S	A propane cylinder was stored approximately 7 feet from an oxygen cylinder at the receiving area.	\$2275.00/ 1200.00	N
ORNL-LMES Robotics (Building 7603)	1910.303(f)	S	The electrical panel labeled “JS” did not have breakers 1,3,27 and 29 labeled as to what they energize exposing employees working on the equipment to the possibility of electrical shock or other injuries.	\$6300.00/ \$975.00	Y
ORNL-LMES Building 7012 Fabrication Shop	1910.184(d)	S	Wire ropes lings used in the shop that were kinked and bird caged were not removed from service.	\$1875.00	N
ORNL-LMES Building 7012 Fabrication Shop	1910.212(a)(3)(i)	S	The points of operation of the following machines were not guarded: a: Niagara press brake #909 b: Pacific Hydraulic press brake #770	\$1875.00/ \$950.00	Y

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ORNL-LMES Building 7012 Fabrication Shop	1910.242(a)	S	The power cord on the Milwaukee drill in the welding booth was defective, exposing employees to live electrical parts.	\$1500.00/ \$900.00	Y
ORNL-LMES Building 7012 Fabrication Shop	1910.303(g)(i)(ii)	S	The disconnect for machine #914 was blocked by a garbage can and large wooden poles, exposing employees to the injuries which may result due to inability to disconnect the machine quickly.	\$1500.00/ \$1100.00	N
ORNL-LMES Building 7012 Fabrication Shop	1910.305(g)(1)(i)	S	Flexible cords and cables in the following locations were not approved and suitable for the conditions of use and location: a: Fixed grinder #797 was not hard wired. b: Fixed grinder # 801 was not hard wired.	\$1500.00	Y
ORNL-LMES Building 7012 Fabrication Shop	1910.176(b)	O	Material storage: Bandsaw blades were left on the floor exposing employees to being cut.	0	N
ORNL-LMES Building 3502 Carpenter Shop	1910.213(h)(1)	S	Radial arm saws were not guarded properly as follows: a: The lower, outer portion of the blade on the Dewalt radial arm saw was not guarded. b: the lower, inner portion of the blade on the Sears Craftsman radial arm saw was not guarded.	\$1500.00	Y
ORNL-LMES Building 3502 Carpenter Shop	1910.213(b)(3)	S	Anti-restart devices were not installed on the following woodworking equipment: a: Drill press #92602 b' Drill press #160486	\$1500.00	Y

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ORNL-LMES Building 3502 Carpenter Shop	1910.305(g)(11)(i)	S	The flexible power cord used to supply the Dewalt radial arm saw was not protected from abrasion by a bushing or other device where it entered the saw arm, exposing employees to the hazard of contact with energized parts.	\$1125.00/ \$700.00	Y
ORNL-LMES Building 7009 Carpenter Shop	1910.37(q)(1)	S/ O	Exits in the carpentry shop were not marked with readily visible signs, exposing them to the hazard of restricted or delayed egress in the event of fire or other emergency.	\$1500.00/ \$0.00	Y
ORNL-LMES Building 7009 Carpenter Shop	1910.212(b)	S	The pedestal grinder was not anchored to prevent tipping or walking, exposing employees to the hazard of being struck by the machine.	\$1125.00	Y
ORNL-LMES Building 7009 Carpenter Shop	1910.213(b)(3)	S	The following machines did not have anti-restart devices. a: drill press #952 b: band saw #948	\$1500.00/ \$1100.00	Y
ORNL-LMES Building 7009 Carpenter Shop	1910.213(h)(4)	S	The cutting head on radial arm saw #95 was not installed so that it would return to the starting position when released.	\$1500.00/ \$900.00	Y
ORNL-LMES Building 7009 Carpenter Shop	1910.215(d)(3)	S	Contact surfaces of wheels, blotters or flanges on grinding machines were not flat and free of foreign matter. One wheel on grinder #978 had evidence of soft metal loading, exposing employees to the hazard of being struck by flying parts.	\$1125.00/ \$900.00	Y

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ORNL-LMES Building 7009 Carpenter Shop	1910.176(b)	O	Band saw blades were improperly stored, exposing employees to being cut by the blades	0	N
ORNL-LMES Building 7009 Carpenter Shop	1910.303(f)	O	Over current devices in the panel box in the lumber storage area were not identified.	0	

*Changes made in informal conferences are denoted in the following columns as follows:

TYPE: S/O designates a change in citation classification from serious to other.

TYPE: S/D indicates that an alleged violation was deleted.

PENALTY: \$1800/\$0.00 denotes a reduction in penalty from \$1800.00 to \$0.00.